

1.0 PURPOSE OF AND NEED FOR ACTION

1.1 Purpose of Proposed Project

The purpose of the proposed project is to provide for an improved transportation system in Jo Daviess and Stephenson Counties through a transportation facility that properly addresses existing and projected system deficiencies and seeks to improve the safety and efficiency of the transportation system (Figure 1-1). This would include the high level of trip demands in Jo Daviess and Stephenson Counties caused by increasing community and economic development within the area. The proposed project should integrate the needs of increased development, system capacity, travel safety, community access, and system continuity.

The proposed project would provide a high-type highway with an appropriate connection to the four-lane facility west of Illinois Route 84, northwest of the city of Galena, and extend 47 miles to the east connecting to a previously approved four-lane facility east of Bolton Road, northwest of the city of Freeport (see Figure 1-2). This improvement and the Mississippi River crossing (Julien Dubuque Bridge) are the only remaining two-lane sections of U.S. Route 20 left to be studied for multi-lane improvements between Waterloo, Iowa and Rockford, Illinois. The Dubuque Metropolitan Area Transportation Study (DMATS) in cooperation with the Iowa Department of Transportation and the Illinois Department of Transportation (Department) is currently studying increasing the system capacity over the Mississippi River between Dubuque and East Dubuque.

The termini have been established so that U.S. Route 20 would function independently without forcing further improvements that may have impacts not addressed in the environmental studies, and so that the project would not restrict other future transportation improvements.

1.2 History

There has been a formal interest in modernizing U.S. Route 20 in northwestern Illinois since the interstate system took form. In 1963, the Illinois State Legislature responded to the interest in improving such routes as U.S. Route 20 by establishing the Transportation Study Commission (TSC). The TSC was charged with preparing a comprehensive study for modernizing the State's transportation system. The study was completed in 1967 and recommended a long-range program of development based on a complete network of arterial, collector and access routes throughout the State. To meet the future need for arterial routes, the study proposed the integration of planned federal interstate routes with a new State Supplemental Freeway System.

The 1967 TSC study identified a freeway location in the northwestern part of the state between Dubuque, Iowa and Rockford, Illinois. It was designated as Federal Aid Primary (FAP) Route 401 and closely paralleled U.S. Route 20 (U.S. Route 20 has subsequently been redesignated as FAP 301). A freeway in this location was based on the need to provide accessibility to interstate type service and improve east-west traffic service to this part of the state.

The latest stage in developing a comprehensive system of highways at the national level came with the passage of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA). This federal legislation established a National Highway System to provide an interconnected system of principal arterial routes to serve interstate and interregional travel, meet national defense requirements, and serve major population centers, international border crossings, ports, airports, public transportation facilities, other intermodal transportation facilities, and major travel destinations. Among the highways included in the National Highway System are the



Figure 1-1 Project Area Map – T:\IDOT\1283\Reports\EIS\Volume1\Exhibits\Figure 1-1.dgn



Figure 1-2 Regional Map - T:\IDOT\1283\Reports\EIS\Volume\Exhibits\regional map.dgn



interstates. Other urban and rural principal arterials that fulfill the purposes of the system are also included in the system. U.S. Route 20 between Rockford and East Dubuque was included in the National Highway System on November 28, 1995.

U.S. Route 20 was included in the National Highway System because it continues to be a principal rural arterial serving the major population centers of Galena, the Galena Territory and the city of Freeport within Jo Daviess and Stephenson Counties. These interconnections provide access between the communities served by U.S. Route 20 and the major markets and business centers of the Midwest.

ISTEA authorized the study and/or implementation of specific demonstration projects. Section 1107 of ISTEA provides assistance for highway projects demonstrating innovative techniques of highway construction and finance. Environmental studies, preliminary engineering, and design studies for improving U.S. Route 20 to four lanes in Jo Daviess and Stephenson Counties is one of the projects authorized under Section 1107 of ISTEA.

1.3 Need for Proposed Action

The need for the proposed project is based on several aspects of the currently inadequate transportation system. The following sections address the need for the proposed action in terms of regional economic characteristics, system capacity, safety concerns, community access, and system continuity.

Regional Economic Characteristics

Recent increases in tourism and recreational related activities, a dramatic growth in the number of second homes, and shifts in employment trends in the southern and central regions of Jo Daviess County have resulted in a doubling of traffic on U.S. Route 20 over the past two decades. Local commuting patterns and increased truck travel have also contributed to the additional traffic on U.S. Route 20.

This region has experienced considerable increases in tourism in recent years. Tourism is a major economic generator with attractions such as the Galena National Historic District and the Apple River Canyon State Park. The Galena National Historic District is the third most popular tourist destination in the State, with an estimated one million visitors per year¹. The average attendance at Apple River Canyon State Park was 212,400 per year between 1991 and 1995². In addition to these attractions, a number of visitors from Illinois attend dog track racing and riverboat gambling in Dubuque, Iowa.

Substantial growth has occurred in the scenic and recreation-oriented tourism industry. The Chestnut Mountain Resort, south of the Galena Territory, and the Eagle Ridge Inn and Resort in the Galena Territory are two of the three largest employers in the county. Both resorts have hotels. The Galena Territory includes condominiums and second homes centered around lakes and golf courses. Chestnut Mountain has the region's largest skiing facilities. An estimated eighty-five percent of all homes in the Territory are second residences for people from the Chicago area. Growth is expected to continue in the second home communities of the Galena Territory and Apple Canyon Lake, another recreation-oriented development, located to the east. The Galena Territory is currently at 56 percent of capacity. Approximately 50 new homes are

¹ Source: Galena/Jo Daviess County Convention and Visitors Bureau

² Source: Illinois Department of Natural Resources



being built each year. It is expected that the area will reach 85 percent capacity by the year 2010. The first phase of Longhollow Point Resort, a 69-unit new condominium/hotel complex has been built near the entrance to Galena Territory; a total of 250-units are planned to be constructed. South of U.S. Route 20 and across from Longhollow Point Resort is the planned Saddleback development consisting of a golf course with commercial properties and a residential subdivision.

Other areas near the project are growing and are expected to continue this trend. Immediate plans for development in the city of Galena include a 41-hectare (102-acre) industrial park on the west side of the city as well as a 12-hectare (30-acre) mixed-use development and a 103 single family home subdivision on the east side of Galena. Industrial development is expected to continue in the areas south of the city of East Dubuque. Commercial development continues around Freeport.

In addition to the considerable increased travel due to the tourist attractions and development, there are more local trips and greater truck transport demand. Many workers commute to nearby regional employment centers from rural and semi-rural residences. Many residents use U.S. Route 20 to reach work destinations in Dubuque to the west and the cities of Freeport and Rockford to the east. Truck usage of U.S. Route 20 has continually increased through the past decades, since it is the only major east-west highway in the area.

System Capacity

The need for a four-lane facility to serve Jo Daviess and Stephenson Counties was identified in the 1960s. Since then, travel demand along U.S. Route 20 in this region has grown substantially. Measured in terms of Average Daily Traffic (ADT), travel demand along existing U.S. Route 20 has more than doubled on most segments between 1965 and 2003 despite the relatively stable population levels. Traffic volumes on the westernmost 60 percent of the highway grew during the period from 1985 to 1993 at an average annual rate of nearly 5.5 percent (compounded annually). The section of U.S. Route 20 between Illinois Route 73 and the city of Freeport experienced a similar rate of growth.

The growth in travel demand on U.S. Route 20 can be attributed to several factors, all of which are related to the functions served by the highway, as well as national trends. One of these factors is increased interregional travel, in particular truck travel, as the trucking industry has accounted for an increasing share of goods movement since the 1960's. Completion of major segments of the interstate highway system in the 1970's provided a large boost to the use of trucks to transport freight. Travel by commercial truck has continued to grow ever since. Another component of interregional travel is rail travel, both for handling freight and passenger traffic. The handling of freight by rail is still used in the transportation of goods in northwestern Illinois/northeastern Iowa. However, passenger rail service was halted in 1981 due to low ridership.

This growth in travel demand has increasingly affected traffic flow. This is particularly true during summer and fall weekends when additional travel demand by tourists and part-time residents frequently exceeds the roadway's capacity, resulting in extensive backups.

Existing traffic and traffic projections for existing U.S. Route 20 for the year 2020 indicate the need for a four-lane facility (Figure 1-3). Traffic projections, as developed by the Department using a growth rate of 3.36 percent, were based on existing traffic conditions (traffic counts) along existing U.S. Route 20 in Jo Daviess and Stephenson Counties during summer and fall 1993 and spring and summer 1994. According to the latest Department criteria, a four-lane



Figure 1-3 Existing and Projected Design Hourly Volumes For U.S. Route 20 –
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facility is warranted when traffic reaches a two-way Design Hourly Volume (DHV) of 800. The DHV is a measure representing the 30th maximum hour (30HV) in the Design Year. As shown in Figure 1-3, almost all of the sections of existing U.S. Route 20 between Galena and Freeport have a current 30HV that already meets four-lane warrants with the projected Design Hourly Volume far exceeding the warrants. In addition, truck travel in general is expected to continue to grow, even though the existing U.S. Route 20 geometrics were not designed to accommodate the larger trucks that are coming into greater use by the trucking industry.

Increased traffic volumes lower the “level of service” of U.S. Route 20. Level of Service (LOS) is a qualitative measure describing operational conditions within a traffic stream. LOS ratings for a mainline facility are measured with an A as best and a F as worst. Please see Table 1-1 for existing U.S. Route 20 LOS and detailed definitions. Current Department design criteria require at least a LOS of B for a major rural highway.

Safety Concerns

U.S. Route 20 in the project area was constructed through a corridor where topographic and geologic features are characterized by undulating terrain, with steep ridges and narrow valleys and bedrock strata that lie close to the surface. These physical conditions directly influenced the highway’s alignment configuration, which often followed the existing contours of the area’s ridges and valleys. Further, the past era’s roadway design standards are not adequate for today’s higher performance vehicles, truck class dimensions, and overall traffic volumes.

The existing geometry of U.S. Route 20 also reduces the efficiency to move people and goods through the region. Traffic backups develop at many locations behind slow moving vehicles, a result of extensive lengths of no-passing zones, restricted sight distances, steep grades and, generally, only one travel lane operating in each direction. Furthermore, many of the advisory speeds for substandard sections of U.S. Route 20 are at least 25 percent lower than the typical regulated speed of 80 kph (55 mph) for a rural major arterial. This has increased travel time between the U.S. Route 20/Illinois Route 84 intersection on the west and Freeport on the east.

Consequently, most of existing U.S. Route 20 (approximately 73 percent) between Galena and Freeport does not meet the Department’s current design standards for a rural highway. Nearly 50 percent of existing U.S. Route 20 between Galena and Freeport is comprised of vertical and horizontal curves that do not meet the Department’s current standards for a 90 kph (65 mph) design speed for rural highways. In addition, more than 10 percent of this section has grades steeper than the maximum grade allowed for a roadway to remain in place.

According to current Department design standards for a two-lane roadway, passing sight distance (passing zones) should be available for at least 40 percent of a roadway’s length. Along eastbound U.S. Route 20, passing zones account for only 34 percent of the roadway, while along westbound U.S. Route 20, passing is permitted along only 37 percent of the roadway. Actual passing opportunities are available much less than these percentages due to the high volume of traffic. In addition, many of the at-grade intersections within the project limits have substandard turning radii, sight distances, grades and capacity. Shoulders adjacent to the majority of the U.S. Route 20 pavement are either minimal or non-existent.

Crash data has been reviewed for a period covering 1984 through **2002**. As shown in Table 1-2, over the **19**-year period from 1984 to **2002**, a total of **3,942** crashes have been reported along U.S. Route 20 in the project area. **For crash data 2000-2002, see Table 1-3.**



TABLE 1-1
EXISTING U.S. ROUTE 20 - LEVEL OF SERVICE
Two Lane, General Segment Analysis

SEGMENT	1993				2010 LOS				2020 LOS				%	30th
	Existing Conditions				Projected Conditions				Projected Conditions					
	30HV	ADT	% NPZ	LOS	30HV	ADT	% NPZ	LOS	DHV	ADT	% NPZ	LOS		
ILLINOIS ROUTE 84 (N) to Galena ECL	1,035	9,000	88	E	1,788	15,550	20	E	2,300	20,000	20	F	7.1%	11.5
Galena ECL to Wachter Rd.	1,020	6,800	71	E	1,770	11,800	20	E	2,280	15,200	20	F	6.6	15
Wachter Rd. to ILLINOIS ROUTE 84 (S)	855	5,700	94	D	1,470	9,800	20	E	1,890	12,600	20	E	7.9	15
ILLINOIS ROUTE 84 (S) to Derinda Rd.	810	5,400	62	D	1,388	9,250	20	E	1,785	11,900	20	E	8.1	15
Derinda Rd. to IL 78 (S)	780	5,200	56	D	1,350	9,000	20	E	1,740	11,600	20	E	8.3	15
IL 78 (S) to IL 78 (N)	930	6,200	4	C	1,598	10,650	4	E	2,055	13,700	4	E	8.0	15
IL 78 (N) to ILLINOIS ROUTE 73	780	5,200	69	C	1,350	9,000	20	D	1,740	11,600	20	E	9.2	15
ILLINOIS ROUTE 73 to U.S. Route 20 bypass	1,100	8,800	44	D	1,894	15,150	20	E	2,440	19,500	20	E	6.3	12.5

Definitions: DHV - Design Hourly Volume
 LOS - Level of Service
 % NPZ - Approximate Percent No Passing Zone
 30HV - 30th Highest Hourly Volume

Notes: Projected conditions assume that a 4-lane highway is not built; however, it does assume that the Department's current policy of maintenance and roadway improvements will continue; for calculation purposes 20% maximum no passing zones assumed for years 2010 and 2020.

The basis for the traffic analysis is a twenty-year design commencing at the start of the study period. Travel patterns in the region have not been meaningfully altered during the development of this DEIS and continue to indicate a need for the project.

- LOS A - Describes free flow conditions. Operation of vehicles is virtually unaffected by the presence of other traffic.
- LOS B - Generally, free flow conditions, although presence of other vehicles begins to be noticeable.
- LOS C - Influences of traffic density on operations become marked.
- LOS D - Borders on unstable traffic flow. Ability to maneuver is severely restricted.
- LOS E - Unstable flow, little to no maneuverability and increased amount of stoppage.
- LOS F - Flow breakdown. Demand exceeds capacity.



TABLE 1-2
CRASH TYPE AND NUMBER, 1984-2002

ACCIDENT TYPE	NUMBER OF OCCURRENCES																			
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
ANGLE	4	6	3	8	8	7	7	8	8	7	16	20	NA	19	16	27	10	14	15	203
ANIMAL	21	29	34	40	42	45	62	60	45	47	33	52	NA	46	32	50	39	49	61	787
BICYCLIST	0	0	0	0	0	1	0	0	0	0	0	0	NA	0	0	0	0	0	0	1
FIXED OBJECT	41	41	56	48	42	51	42	40	36	38	33	48	NA	44	36	23	38	28	33	718
HEAD ON	9	8	7	7	5	4	11	6	4	5	7	3	NA	2	3	4	4	1	4	94
OVERTURNED	9	8	19	15	15	12	18	13	14	9	8	10	NA	8	10	5	12	12	12	209
PARKED VEHICLE	3	3	5	2	0	3	2	2	5	2	2	2	NA	2	1	2	1	1	7	45
PEDESTRIAN	0	0	2	1	0	0	0	1	0	0	0	0	NA	1	0	0	0	0	1	6
REAR END	19	32	42	35	27	42	45	45	33	51	64	59	NA	66	71	69	72	53	57	882
SIDESWIPE	15	14	12	12	14	11	21	15	20	17	5	9	NA	13	13	17	8	8	6	230
TURNING	19	28	22	12	20	19	24	25	29	23	18	16	NA	12	9	3	9	17	21	326
OTHER	9	20	12	10	12	20	10	18	17	7	15	12	NA	9	17	14	15	7	11	235
TOTAL INJURED	49	81	96	95	77	79	140	95	100	95	122	110	NA	72	113	83	78	56	85	1626
FATALITIES	4	2	2	4	3	3	3	3	1	1	6	0	NA	2	1	7	3	4	2	51
TOTAL ACCIDENTS	149	189	214	190	185	215	242	233	211	206	201	231	207	222	208	214	208	190	228	3943

Source: Illinois Department of Transportation, 2004.

TABLE 1-3
CRASH TYPE AND NUMBER SUMMARY, 2000-2002

CRASH	CRASH TOTALS				PERCENTAGES			
	YEARLY			PERIOD	YEARLY			PERIOD
	2000	2001	2002	2000-2002	2000	2001	2002	2000-2002
A. ANGLE	10	14	15	39	4.81%	7.37%	6.58%	6.23%
B. ANIMAL	39	49	61	149	18.75%	25.79%	26.75%	23.80%
C. FIXED OBJECT	38	28	33	99	18.27%	14.74%	14.47%	15.81%
D. HEAD ON	4	1	4	9	1.92%	0.53%	1.75%	1.44%
E. OTHER NON-COLLISION	4	0	5	9	1.92%	0.00%	2.19%	1.44%
F. OTHER OBJECT	11	7	6	24	5.29%	3.68%	2.63%	3.83%
G. OVERTURNED	12	12	12	36	5.77%	6.32%	5.26%	5.75%
H. PARKED VEHICLE	1	1	7	9	0.48%	0.53%	3.07%	1.44%
I. PEDESTRIAN	0	0	1	1	0.00%	0.00%	0.44%	0.16%
J. REAR END	72	53	57	182	34.62%	27.89%	25.00%	29.07%
K. SIDESWIPE – SAME DIRECTION	4	8	5	17	1.92%	4.21%	2.19%	2.72%
L. SIDESWIPE – OPPOSITE DIRECTION	4	0	1	5	1.92%	0.00%	0.44%	0.80%
M. TURNING	9	17	21	47	4.33%	8.95%	9.21%	7.51%
TOTAL INJURED	78	56	85	219	37.50%	29.47%	37.28%	34.98%
FATALITIES	3	4	2	9	1.44%	2.11%	0.88%	1.44%
TOTAL CRASHES	208	190	228	626	100.00%	100.00%	100.00%	100.00%

Source: Illinois Department of Transportation, 2004.



From an operational perspective, U.S. Route 20's history of relatively high crash rates is indicative of substandard roadway geometry. The number of high crash locations along U.S. Route 20 between the city of Galena and the city of Freeport has been higher for the 3-year period from 1989 to 1991 than for highways in the State as a whole. The locations were numbered 9, 11, and 10, respectively, for each of the three years and were included in the top 1,000 high crash locations statewide outside of the Chicago metropolitan area.

Over the 19-year period between 1984 and **2002**, a total of **3,942** reported crashes occurred within the project area. Of this total, vehicles leaving the roadway accounted for approximately **one-third (33 percent)** of the total crashes, while rear-end and turning/angle collisions accounted for an additional **36** percent of the total crashes. These types of crashes typically coincide with the types of roadway conditions that characterize substantial sections of U.S. Route 20, including substandard horizontal alignments, inadequate shoulder widths, restricted sight distances, and conflicting turning movements at intersection and driveway locations.

Throughout the study period, both crash rates and crash frequencies have been consistently above the statewide averages for similar facilities. Crash frequencies (crashes per mile) have increased at a rate of about one percent per year. Although crash rates (crashes per vehicle-mile of travel) have decreased slightly, they remain higher than the statewide average.

Animal hits, predominantly deer, account for over **21** percent of the total crashes along U.S. Route 20 during this period. The limited sight distances and substandard shoulder widths that currently exist restrict drivers' reaction time and limit vehicle maneuverability. These deficiencies help contribute to the high number of animal/vehicle collisions and vehicles leaving the roadway. What is not noted is the number of crashes caused by near animal hits. With the high volume of traffic on U.S. Route 20 and the limited room to maneuver, defensive maneuvers to avoid hitting a deer, or any other animal, can contribute to these crashes.

Aside from geometric deficiencies, the number of crashes occurring along U.S. Route 20 can also be attributed to the higher than optimum traffic volumes. As the design hourly volume (DHV) continues to increase along U.S. Route 20, the level of service continues to decline. A level of service of B provides for stable operations and is the minimum level of service that is desired. According to the latest Department criteria, a LOS of B can be maintained on a two-lane facility with a two-way DHV of 800 or less. With the current DHV ranging from 780 to 1100 vehicles per hour, almost all segments of U.S. Route 20 are already exceeding such a level of service. This has several detrimental effects on the drivers' safety. The number of vehicles on the road at one time causes a reduction in the drivers' physical and psychological comfort including less time to physically react to movements of other vehicles, reduced driver comfort within the congested traffic stream, and driver overcompensation. The increased congestion may also result in drivers taking unnecessary risks.

Although many of the crashes along U.S. Route 20 may be attributable to geometric deficiencies, straightening the curves and widening the shoulders will not correct all the safety problems along this section of U.S. Route 20. The Department has already made geometric improvements to many sections of U. S. Route 20, which had higher numbers of crashes, but the number of sections along U.S. Route 20 on the Department's High Crash Location list still remains relatively constant.

Geometric improvements have removed some sections from the high crash list; however, the number of sections taken off the list is equalized by the number of new sections along U.S. Route 20 that have been added to the list. The most likely cause for this equalization is the



higher traffic volumes. To reduce the total number of sections along U.S. Route 20 on the high crash location list, a combination of geometric improvements and traffic capacity improvements is required.

The above data and information indicate a geographical relationship between high crash locations and locations of substandard geometry along U.S. Route 20. The lack of design consistency, deficient geometrics, and traffic conflicts created at numerous intersections and driveway locations characterize U.S. Route 20 between Galena and Freeport.

Community Access

An additional need for the proposed project is to improve access between the communities located along U.S. Route 20 and to improve access between Jo Daviess and Stephenson Counties and the metropolitan areas and markets in Illinois and the surrounding states. An overview of the existing road network shows that U.S. Route 20 is an integral part of the local road system. This is caused by the topography of the area, which does not lend itself to a grid roadway network typical in other areas of Illinois. As part of the local road system, U.S. Route 20 experiences a varied traffic mix. Vehicles using the roadway include farmers moving their equipment from farmstead to field; school buses picking up children in the outlying areas and taking them to schools in the city of Galena, the villages of Elizabeth, Stockton, Lena and the city of Freeport; residents in the outlying areas traveling to the services provided in the communities; and through traffic making interregional trips.

Traffic along existing U.S. Route 20 has continued to increase as a result of local travel demand. As stated, U.S. Route 20 serves as a major link between many of the communities in both Jo Daviess and Stephenson Counties, particularly for those households that depend on the private automobile and truck for work, leisure and shopping activities, as well as for businesses moving their products from farm to market. This increase in local travel demand has been the result of several factors. Non-farm employment in Jo Daviess and Stephenson Counties has increased by approximately 5,800 jobs between 1980 and 1997 while farm employment has decreased by approximately 1,480 jobs in the same time period. The number of housing units in the counties has increased by 4,731 between 1980 and 2000. Comparable job growth in the nearby regional centers of Rockford and Dubuque (Figure 1-2) has also occurred. The city of Galena, the Galena Territory, the various recreational resorts, the villages of Eleroy, Lena, Elizabeth, and Stockton and the township of Woodbine all provide employment and service opportunities to the residents of Jo Daviess and Stephenson Counties.

Examples of local traffic demand include the dairy farmer in the western portions of Jo Daviess County delivering milk to the dairy processing plants in the village of Stockton. The dairy products are then shipped from Stockton to markets in Wisconsin and Eastern Illinois. A major lumber company in Eleroy receives raw lumber from suppliers in the west and produces roof trusses and prefabricated walls for delivery to markets in the Chicago area and Iowa. The village of Lena provides additional workforce for the commercial and industrial businesses in Freeport. As the businesses and recreational areas continue to grow and serve the region, the need for an improved and expanded roadway facility linking these areas becomes more important.

System Continuity

The Department's Office of Planning and Programming classifies U.S. Route 20 as a Major Arterial Highway within the rural State highway system. In general, major arterials are expected to provide a high degree of mobility and, therefore, should permit high operation speeds and



direct routing to favor the longer trip lengths. In terms of service characteristics, the Major Arterial Highway system is intended to: (1) link cities, large towns, and other "long distance trip" traffic generators (such as resort areas); (2) provide internal spacing consistent with land use and population density patterns, such that all developed areas in the State are within reasonable distances of the highway network; and (3) integrate interstate and inter-county service.

The 47-mile portion of U.S. Route 20 from Illinois Route 84 and Galena to Freeport is the last remaining two-lane section of U.S. Route 20 between Waterloo, Iowa and Rockford, Illinois, other than the Julien Dubuque Bridge across the Mississippi River. Increasing the capacity of the bridge is currently under study by DMATS in cooperation with the Iowa Department of Transportation and the Department. East of Rockford, the east-west travel function is provided by I-90 that essentially extends the nearly continuous four-lane east-west corridor provided by U.S. Route 20 to Chicago and points east.

U.S. Route 20 in northwest Illinois also serves to link important north-south roadways and population centers in the region. These interconnections provide access between the communities served by U.S. Route 20 to the major markets and business centers of the Midwest. In particular, U.S. Route 20 (near Waterloo, Iowa) would connect to the selected "Avenue of the Saints," an interstate-level highway linking St. Louis, Missouri and St. Paul, Minnesota. In addition to these interconnections, U.S. Route 20 via the link with Illinois Route 84, west of the village of Elizabeth in Jo Daviess County serves the Savanna Army Depot, which is being redeveloped to include commercial, residential, and industrial uses.

The proposed project is needed to complete the missing four-lane section on U.S. Route 20 between Galena and the Freeport Bypass. Upon completion of this project and the Mississippi Bridge at Dubuque, U.S. Route 20 would have continuous four-lane capacity from northwestern Illinois to northern Iowa (from Rockford to Waterloo).

